

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assistant Commissioner for Patents
Washington, DC 20231

#17/K.T.
Revoc.
w/p.o.a.

Sir:

**POWER OF ATTORNEY WITH REVOCATION AND
CHANGE OF CORRESPONDENCE ADDRESS**

I hereby revoke all previous powers of attorney or authorizations of agent given in the applications/patents identified in Table A attached hereto, and appoint

Practitioners at Customer Number:


34138

as my/our attorney(s) or agent(s) to prosecute the applications/patents identified in Table A, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the Correspondence Address for the applications/patents identified in Table A to:

Practitioners at Customer Number: 34138

I am the:

Applicant/Inventor.

Assignee of record of the entire interest. (A statement under 37 CFR 3.73(b) is enclosed.)

Respectfully submitted,
ISIS PHARMACEUTICALS, INC.

Date:

3/27/03

By:

Name: B. Lynne Parshall
Title: Executive Vice President

Table A

Serial No. Patent No. Docket No.	Filing Date Issue Date	Inventor(s)	Examiner	Art Unit	Title
08/659,440 5,898,031 (ISIS0002-100)	06/06/1996 04/27/1999	S. Crooke	J. LeGuyader	1809	OLIGORIBONUCLEOTIDES FOR CLEAVING RNA
08/870,608 6,107,094 (ISIS0002-101)	06/06/1997 08/22/2000	S. Crooke	S. McGarry	1635	OLIGORIBONUCLEOTIDES AND RIBONUCLEASES FOR CLEAVING RNA
09/479,783 (ISIS0002-102)	01/07/2000	S. Crooke	S. McGarry	1635	OLIGORIBONUCLEOTIDES AND RIBONUCLEASES FOR CLEAVING RNA
10/078,949 (ISIS0002-103)	02/20/2002	S. Crooke	Unknown	1635	OLIGORIBONUCLEOTIDES AND RIBONUCLEASES FOR CLEAVING RNA
09/900,425 (ISIS0003-100)	07/06/2000	H. Wu et al.	S. McGarry	1635	HUMAN RNASE III AND COMPOSITIONS AND USES THEREOF
10/079,185 (ISIS0003-101)	02/20/2002	S. Crooke	Unknown	1635	HUMAN RNASE III AND COMPOSITIONS AND USES THEREOF
10/199,674 (ISIS0035-100)	07/19/2002	L. Cowser et al.	Unknown	1646	ANTISENSE MODULATION OF PROTEIN KINASE C-10TA EXPRESSION
10/177,554 (ISIS0036-100)	06/20/2002	K. Dobie et al.	Unknown	1645	ANTISENSE MODULATION OF PRL-3 EXPRESSION
10/188,646 (ISIS0037-100)	07/02/2002	F. Bennett et al.	Unknown	1642	ANTISENSE MODULATION OF LIVIN EXPRESSION

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Assistant Commissioner for Patents
Washington, DC 20231

Sir:

STATEMENT UNDER 37 CFR 3.73(b)

Applicant, **ISIS Pharmaceuticals, Inc.**, a corporation, states that it is:

the assignee of the entire right, title, and interest of the applications identified in Table A attached hereto.

The extent (by, percentage) of its ownership interest is **100%** in the patent applications identified in Table A.

a copy of the pertinent assignment from the inventor(s) of the patent applications identified in Table A is enclosed herewith.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Respectfully submitted,
ISIS PHARMACEUTICALS, INC.

Date: 3/27/03

By: _____

Name: B. Lynne Parshall
Title: Executive Vice President



UNITED STATES
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JANUARY 03, 2002

PTAS

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Washington, DC 20231
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KATHLEEN A. TYRELL
66 E. MAIN STREET
MARLTON, NJ 08053



101885286A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/12/2001

REEL/FRAME: 012268/0348
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

WU, HONJIANG

DOC DATE: 10/03/2001

ASSIGNOR:

CROOKE, STANLEY T.

DOC DATE: 10/03/2001

ASSIGNEE:

ISIS PHARMACEUTICALS, INC.
2292 FARADAY AVENUE
CARLSBAD RESEARCH CENTER
CARLSBAD, CALIFORNIA 92008

SERIAL NUMBER: 09900425

FILING DATE: 07/06/2001
PATENT NUMBER:

SHARON BROOKS, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

A S S I G N M E N T

WHEREAS, We, Honjiang Wu, of Carlsbad, State of California and Stanley T. Crooke, of Carlsbad, State of California have invented a certain invention entitled Human RNase III and Compositions and Uses Thereof, for which we have made application for Letters Patent of the United States, said application having been filed July 6, 2001 and assigned Application No. 09/900,425; and

WHEREAS, ISIS Pharmaceuticals, Inc. hereinafter referred to as the assignee, of 2292 Faraday Avenue, Carlsbad CA, a corporation of Delaware, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee,

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to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said

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assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

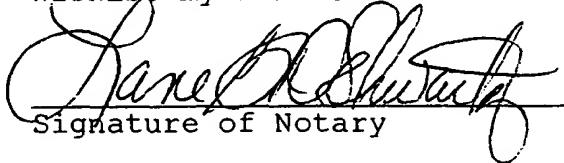
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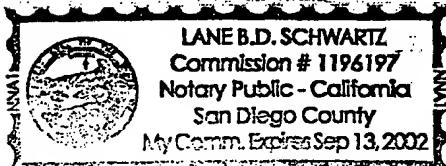

Hongjiang Wu

State of California)
)
 ss.
County of San Diego)

On this 3rd day of October, 2001, before me, the undersigned, a Notary Public for the state, personally appeared Hongjiang Wu, personally known to me/~~proved to me on the basis of satisfactory evidence~~ to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

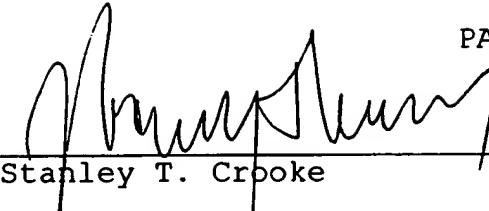

Signature of Notary



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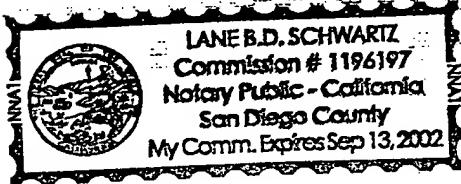
DATED: 9/20, 2001

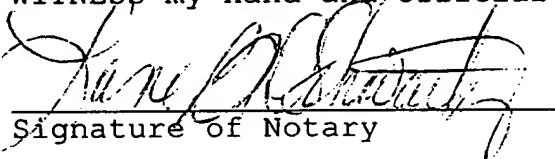

Stanley T. Crooke

State of California)
)
 ss.
County of San Diego)

On this 20th day of September, 2001, before me, the undersigned, a Notary Public for the state, personally appeared Stanley T. Crooke, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.




Signature of Notary